INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/42807

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : F16B 21/00, 19/00 US CL : 411/511, 516, 520, 508, 509, 510, 352, 349, 549, 554, 350					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 411/511, 516, 520, 508, 509, 510, 352, 349, 549, 554, 350					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.		
X	US-2,969,571 A (Vander Sande et al.) 31 January 19		1-5, 7, 9, 10, 12-17		
x	US-2,936,668 A (Meyer) 17 May 1960 (17.05.1960), Entire document		1-5, 7, 9, 11-15, 17		
x	US-2,668,998 A (Tinnerman) 16 February 1954 (16.	1-5, 10-17			
x	US-2,798,277 A (Flora) 9 July 1957 (09.07.1957), Entire document		1-7, 9-17		
x	US-2,556,988 A (Swanson) 12 June 1951 (12.06.1951), Entire document		1-5, 7, 9-11, 15-17		
Y			6, 8, 13, 14		
x	US-5,759,004 (Kuffel) 2 June 1998 (02.06.1998), Entire document		1-7, 9-15, 17		
Y			8		
x	US-5,249,900 A (Mitts) 5 October 1993 (05.10.1993), Entire document		1, 2, 13-15, 17		
Further documents are listed in the continuation of Box C. See patent family annex.					
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	t defining the general state of the art which is not considered to be of relevance	principle or theory underlying the inven			
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"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent for	ımily		
Date of the ac	tual completion of the international search	Date of mailing of the international search report			
10 May 2005 (10.05.2005)		29 JUN 2005			
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Mail	I Stop PCT, Attn: ISA/US	Authorized officer Jeffrey Sharp			
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Facsimile No.	Facsimile No. (703) 305-3230				

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	t defining the general state of the art which is not considered to be of	principle or theory underlying the inve	ntion		
particular relevance "E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			
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"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family			
Date of the actual completion of the international search		Date of mailing of the international search report			
	(10.05.2005)	29 JUN 2005			
Ma Cor	niling address of the ISA/US il Stop PCT, Attn: ISA/US nmissioner for Patents	Jeffrey Sharp			
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